Decor-Grille Security

FLAMESHIELD FIRE & SMOKE CURTAIN

(1HR, 2HR)

SPECIFICATION

FLAMESHIELD FIRE & SMOKE CURTAIN
24 VOLT TUBE MOTOR
(1HR, 2HR)

FIRE & SMOKE RATED CURTAINS

All our fire curtains are manufactured and produced in accordance with the parameters and technical respects indicated within the specification, which was submitted to the Warrington Fire Research Establishment. The curtains constructed to Warrington Fire Research Centre WARRES No 165694, the test is in accordance with clause 8 of BS476 part 22:1987 and BS7346 part 3 which covers the smoke element requirements.

Curtains fire curtains are formed from a fire rated fabric 0.65mm thick, stitched and hemmed (were required) using Kevlar and stainless steel thread, the unique 2 section bottom rail allows smooth operation of the curtain.

Barrel fire curtain barrels are manufactured from mild steel tube, tube size dependant on the overall size of the unit and deflection calculated to conform to British Standards, the barrel is mounted on 20mm high speed bearings and is complete with an enclosed tubular motor either 240 volt AC or 24volt DC.

Safety Feature gravity fail safe, operable if there is a power failure or if the wiring becomes corrupt.

Guides fire curtain guides are constructed from 2.5mm mild steel plate in 2 sections, the front section of the guide is removable and allows repairs to be effected without dismantling the door. The guides are slotted for expansion.

Hood the fire curtain hood is formed from 1.2mm galvanised steel plate and is slotted for expansion.

End plates the fire curtain end plates are formed from 2.5mm plate depth of the plate is dependant on the overall height of the unit, the endplate has a formed motor compartment which will be packed with non combustible material.

Finishes the fire curtain is standard grey, the endplates, guides, hood etc., are powder coated RAL 9010 white as standard, other colours are available at an additional cost.

Operation -	Electrically operated 1PH 240 volt AC or 24 volt DC
Usage-	Although the fire curtain is provided with a key switch, it is not recommended for daily use.
Release Mechanisms -	Linked to the fire alarm as standard other means of activation available are fusible link, smoke detector etc.,

FLAMESHIELD FIRE CURTAIN
STANDARD CONTROL PANEL

P80 UNIT

- Easy set-up and connection.
- Automatic detection of motor end limits.
- Close type options – driven or gravity close as standard.
- Dead man operation – key switch, push buttons etc.,
- Link to fire alarm, will open or close the fire curtain on receipt of a signal from the fire alarm. (Volt Free signal required)
- Facility within the panel for an emergency escape / Fireman's switch, this would only operate if there is mains available.
- 24 Volt battery back up as standard (5 hour stand by time), can be used in the event of power failure.
- Facility for Alarm Test.
- Gravity fail safe available dependant on type of motor used.

OPERATIONAL OVERVIEW

The P80 generally operates via a wall mounted 3 position key switch. Under normal operation the curtain is opened and closed via this key switch.

Fire Conditions - The panel continuously monitors the normally closed alarm input terminals, if the terminals go open i.e alarm triggered, the shutter will close under power or via gravity to the fully closed position. Providing the alarm signal is cleared you can re-open the shutter accordingly.

Facility to link audio or visual warning devices, a siren or flashing light can be added, during the time the alarm input is open the 24Volt DC alarm is activated to allow these units to be added.

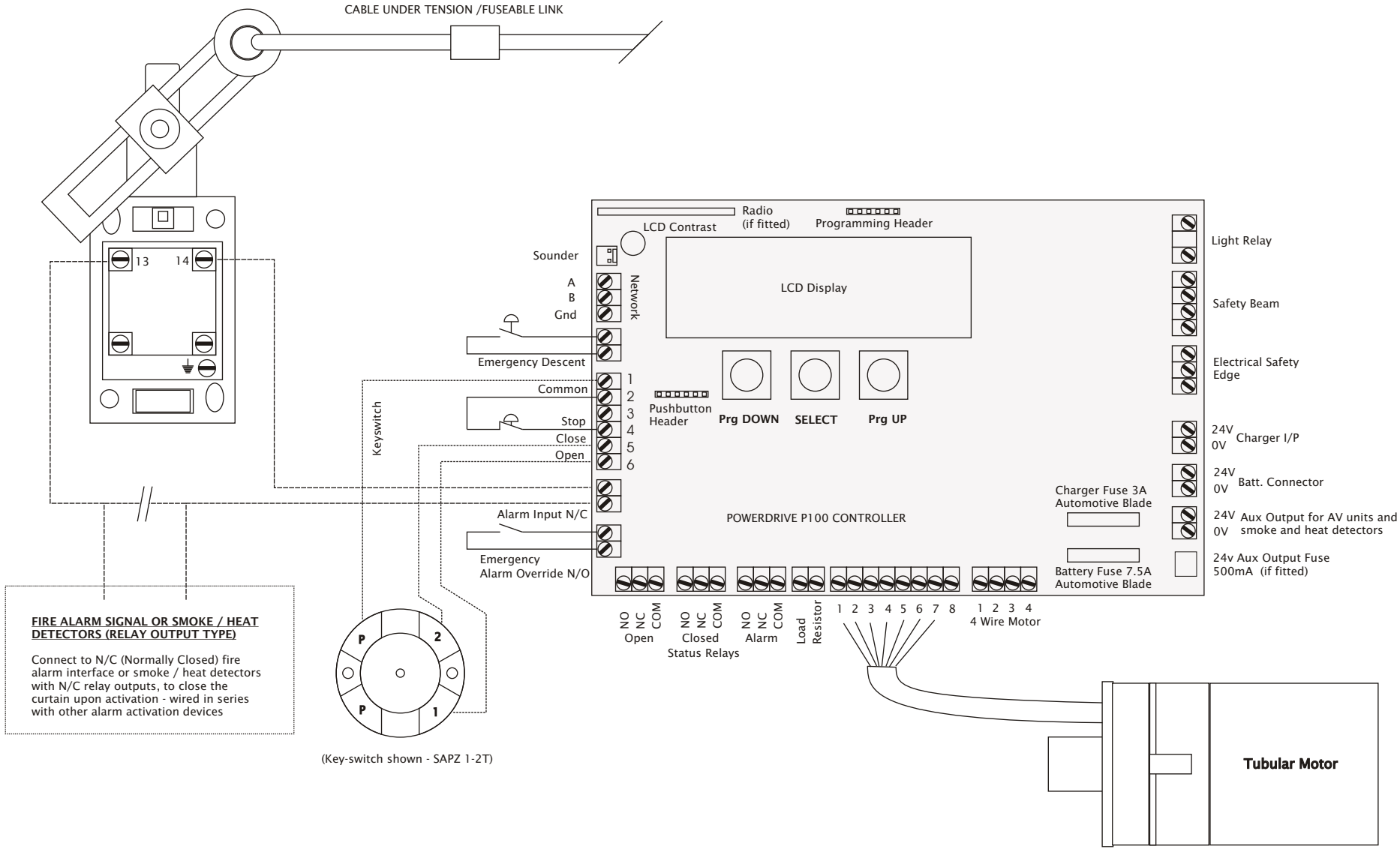
An emergency override alarm button can be used, this will allow you to open the shutter even if the alarm signal is still present, effectively if the alarm signal is still active, once you remove the signal i.e. the override button is released the shutter will re-commence its close cycle.

The P80 unit has a test function input that allows regular testing of the control / curtain.

FLAMESHIELD FIRE CURTAIN
ADVANCED PANEL

P100 UNIT

- Easy set-up and connection.
- Automatic detection of motor end limits.
- Close type options – driven or gravity close as standard.
- Dead man operation – key switch, push buttons etc.,
- Link to fire alarm, will open or close the fire curtain on receipt of a signal from the fire alarm. (Volt Free signal required)
- Can be activated by Fusible link, smoke detectors etc.,
- 2 stage controlled descent available.
- Status relays indicating fully open or fully closed.
- Safety device inputs.
- Low Battery auto close feature.
- Group control Facility.
- Facility within the panel for an emergency escape / Fireman's switch, this would only operate if there is mains available.
- 24 Volt battery back up as standard (5 hour stand by time), can be used in the event of a power failure.
- Facility for Alarm Test.
- Gravity fail safe available dependant on type of motor used.



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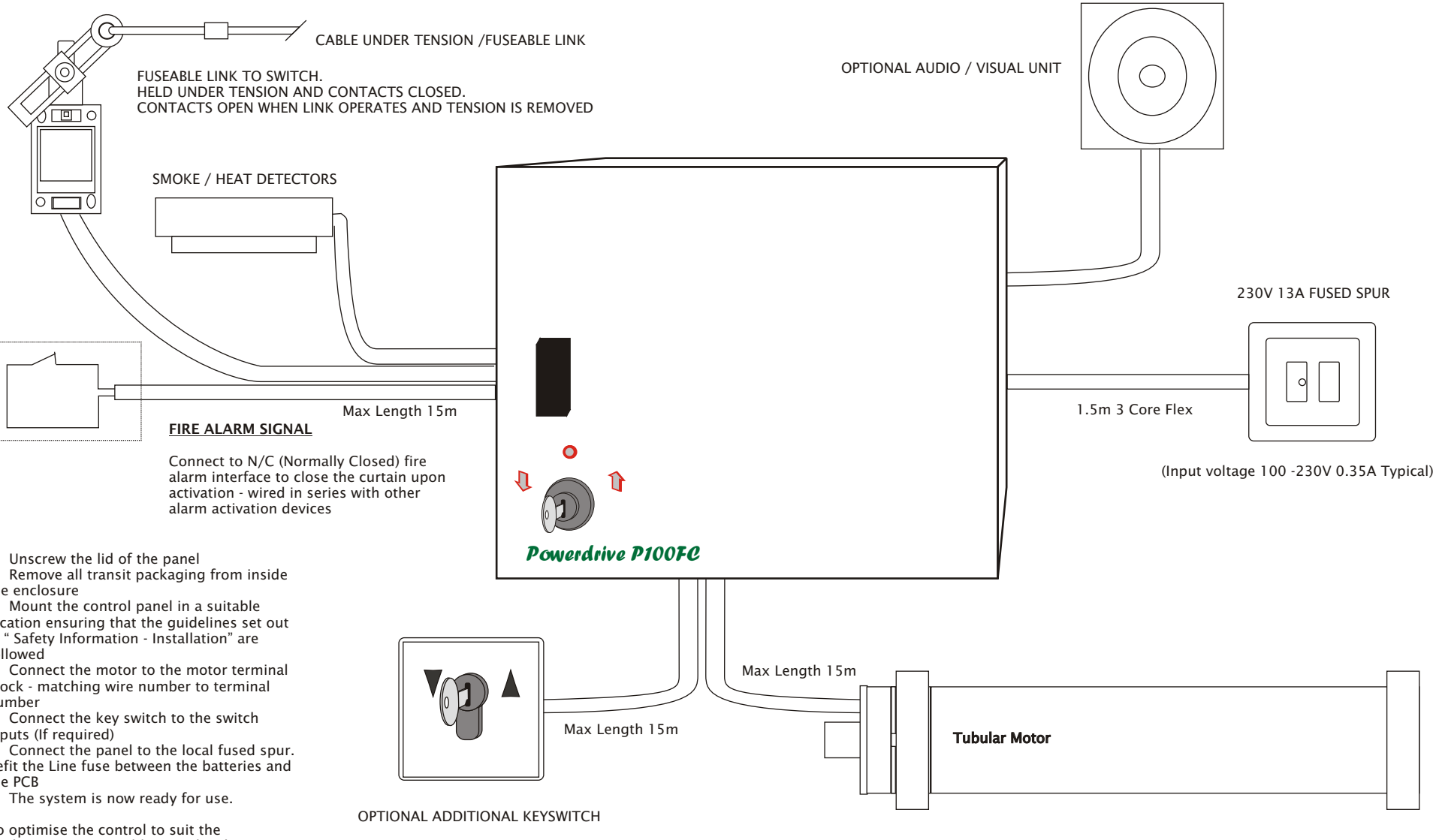
Dwg. Number

P100/FL/AI-01

Fusible Link / Alarm connection to P100 Control Panel. Iss 1

Date:

07/12/07



1. Unscrew the lid of the panel
2. Remove all transit packaging from inside the enclosure
3. Mount the control panel in a suitable location ensuring that the guidelines set out in " Safety Information - Installation" are followed
4. Connect the motor to the motor terminal block - matching wire number to terminal number
5. Connect the key switch to the switch inputs (If required)
6. Connect the panel to the local fused spur. Refit the Line fuse between the batteries and the PCB
7. The system is now ready for use.

To optimise the control to suit the application it is possible to make alterations within the menu items as laid out in this instruction guide. To restore the panel to factory default settings follow menu item 1.

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P100/SLSD/01

P100FC System Layout Alarm

Iss 1

Date:

07/12/07